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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ़”

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“Step Out From the Old to the New”

IS 12266 (1987): international shore connection for use on board ship [TED 19: Marine Engineering and Safety Aids]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”





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*Indian Standard*

**SPECIFICATION FOR  
INTERNATIONAL SHORE CONNECTIONS FOR USE ON BOARD SHIP**

**1. Scope** — Specifies material, shape and dimensions, and performance tests for international shore connections to be used on board ship for fire fighting purposes.

**2. Material**

**2.1 Castings and Forgings** — Castings and forgings for international shore connections shall comply with any one of the materials given in 2.1.1 and 2.1.2.

**2.1.1 Copper alloys used for castings or forgings** shall conform to the requirements given below against each:

a) Sand castings	Grade LTB2 of or Grade HTB1 of	IS : 318-1981 'Specification for leaded tin bronze ingots and castings ( second revision )' IS : 304-1981 'Specification for high tensile brass ingots and castings ( second revision )'
b) Die castings	Grade LCB2 of	IS : 292-1983 'Specification for leaded brass ingots and castings ( second revision )'
c) Hot forgings	Grade 1 of	IS : 291-1977 'Specification for naval brass rods and sections ( suitable for machining and forging ) ( second revision )'
d) Gravity die casting		IS : 1264-1981 'Specification for brass gravity die castings ingots and castings ( second revision )'

**2.1.2 Aluminium Alloys** — Aluminium alloys used for castings shall conform to IS Designation 4450 ( A-8-WP ) or 4425 ( A-16-WP ) of IS : 617-1975 'Specification for aluminium and aluminium alloy ingots and castings for general engineering purposes ( second revision )'.

**2.2 Gaskets** — Any material suitable for 1.05 MPa service ( 1 MPa  $\approx$  10 kgf/cm<sup>2</sup> ).

**3. Shape and Dimensions**

**3.1** The shape and dimensions of international shore connection shall be as shown in Fig. 1.

**4. General Requirements**

**4.1** The flange shall have a flat face on one side and a permanently attached coupling on the other side which will fit the ship's hydrants and hose.

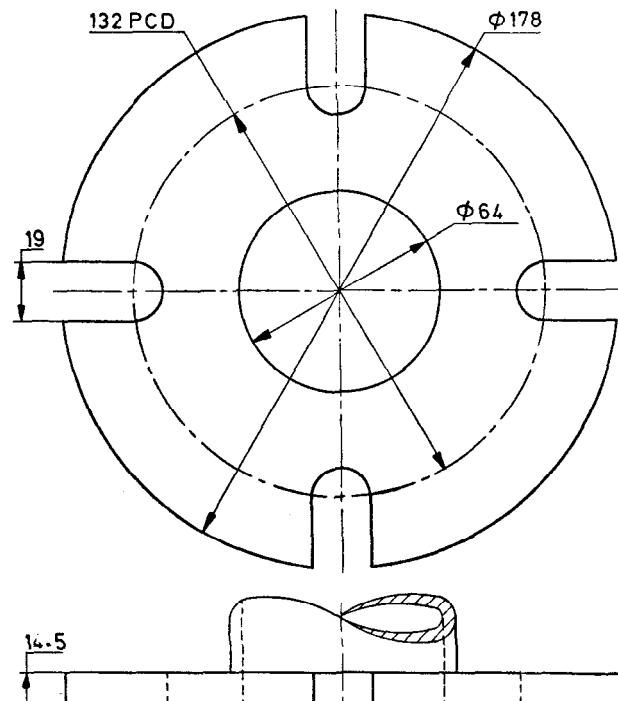
**4.2** The connection shall be kept aboard the ship together with a gasket and four 16 mm bolts of 50 mm length and eight washers of galvanized finish.

**4.3** The working pressure of international shore connection and the gasket shall be 1.05 MPa.

**5. Workmanship and Finish**

**5.1** Castings shall be sound and free from pits, blow holes, scales, cracks and other imperfections and shall not be repaired or filled so as to hide the casting defects. No filling or similar after treatment of castings shall be carried out. Parts not machined shall be finished clean as cast. The machined surfaces shall be polished. All burrs and sharp edges shall be removed. Waterways, particularly the bores, shall have a smooth finish. The exterior of all components shall be sufficiently rounded and smooth to avoid injury during handling.

**5.1.1** When so ordered, exposed aluminium surfaces shall be anodized. The anodized finish shall be of not less than Grade AC15 of IS : 1868-1982 'Specification for anodic coatings on aluminium and its alloy ( second revision )'.



All dimensions in millimetres.

FIG. 1 SHAPE AND DIMENSIONS OF INTERNATIONAL SHORE CONNECTIONS

## 6. Hydraulic Test

**6.1** Each international shore connection shall be subjected to a hydraulic test pressure of 2.10 MPa for a period of two minutes for the purpose of locating porosity in the castings. The test shall be applied after all machining operations have been completed. The international shore connection when so tested, shall not show any sign of leakage or permanent deformation.

## 7. Marking

**7.1** Each connection shall be clearly and permanently marked with the following information:

- Manufacturer's name or trade-mark, and
- Year of manufacture.

**7.2 Standard Marking** — Details available with the Bureau of Indian Standards.

## EXPLANATORY NOTE

In the preparation of this standard, assistance has been derived from 'Safety of Life at Sea' ( SOLAS ) Convention, issued by the International Maritime Organization ( IMO ).